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Examiner: Bokhari, Syed M. **Group:** 2609
Date: February 26, 2008
Client Code: 3226
Facsimile No.: 571-273-8300
From: James M. Smith
Subject: Independent Claim 3, 11 and 17 as Presented
Docket No.: 3226.1020-001
Applicant: Amit Sinha
Application No.: 10/712,797
Filing Date: November 13, 2007

Number of pages including this cover sheet: 4

Please confirm receipt of facsimile: Yes ☒ No ☐

Comments:

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JMS/cmm
February 26, 2008

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PATENT APPLICATION
Attorney's Docket No.: 3226 1020-001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Amit Sinha

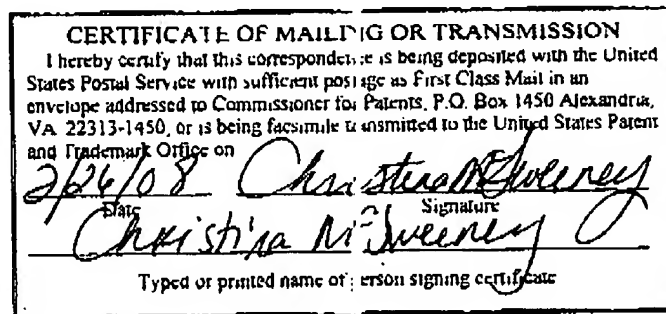
Application No.: 10/712,797

Group: 2609

Filed: November 13, 2003

Examiner: Bokhari, Syed M.

Confirmation No.: 7849

For: OPTIMUM FRAME FRAGMENTATION METHOD FOR COMMUNICATION
OVER ERROR PRONE CHANNELSCommissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

As requested by Mr. Bokhari, the independent claims are presented herewith with the equation in enlarged font for legibility. It is understood that the application is now in condition for allowance.

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3. A method of transmitting frames on a communication link comprising:
 monitoring the communications link to determine a probability of error on the link; and
 selecting frame size as a function of the determined probability and as a function of overhead, the selected frame size being selected from a set of frame sizes computed

numerically as the solution to $1 + \frac{O}{F_{opt} + O} = \frac{\alpha F_{opt}}{1 - e^{-\alpha F_{opt}}}$ where O is overhead, F_{opt} is optimum frame size and $\alpha = -\ln(1 - \text{probability of bit error})$.

11. A system for transmitting frames on a communication link comprising:
 a monitoring routine which monitors the communications link to determine a probability of error on the link; and
 a frame sizer which selects frame size as a function of the determined probability and as a function of overhead, the frame size being selected from a set of frame sizes

computed numerically as the solution to $1 + \frac{O}{F_{opt} + O} = \frac{\alpha F_{opt}}{1 - e^{-\alpha F_{opt}}}$ where O is overhead, F_{opt} is optimum frame size and $\alpha = -\ln(1 - \text{probability of bit error})$.

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17. A system for transmitting frames on a communication link comprising:
means for monitoring the communications link to determine a probability of error on the link; and
means for selecting frame size as a function of the determined probability and as a function of overhead, the frame size being selected from a set of frame sizes computed

numerically as the solution to
$$1 + \frac{O}{F_{opt} + O} = \frac{\alpha F_{opt}}{1 - e^{-\alpha F_{opt}}}$$
 where O is overhead, F_{opt} is optimum frame size and $\alpha = -\ln(1 - \text{probability of bit error})$.

Respectfully submitted,

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

By


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Dated: 2/26/8